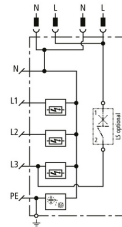


**DSH ZP 2 LSG A TT 255 (909 231)**

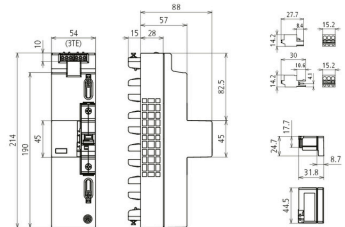
- Type 1 + type 2 + type 3 combined arrester based on spark gap technology, meets the minimum requirements of IEC 60364-5-53 clause 534 for the nominal discharge current capacity  $I_n$  and the lightning current discharge capacity  $I_{imp}$  in case of overhead line supply
- Easy, fast and completely toolless installation by snapping the arrester on 40 mm busbar systems
- Capable of protecting terminal equipment
- Includes a 230 V power supply (N and L) for the compartment for additional applications / termination point meter mounting board according to VDE-AR-N 4100
- Includes a single-pole B6 circuit breaker for power supply
- A sealable protective cover and 2 x sockets and 2 x plugs for easy wiring of the intelligent measuring system are included in delivery



Figure without obligation



Basic circuit diagram DSH ZP 2 LSG A TT 255



Dimension drawing DSH ZP 2 LSG A TT 255

Combined arrester for TT and TN-S systems for use in the main power supply system (3+1 configuration) of buildings with external lightning protection (class of LPS III/IV).

Type	DSH ZP 2 LSG A TT 255
Part No.	909 231
SPD according to EN 61643-11 / IEC 61643-11	type 1 + type 2 + type 3 / class I + class II + class III
Energy coordination with terminal equipment ( $\leq 10$ m)	type 1 + type 2 + type 3
Nominal voltage (a.c.) ( $U_n$ )	230 / 400 V (50 / 60 Hz)
Max. continuous operating voltage (a.c.) ( $U_c$ )	255 V (50 / 60 Hz)
Lightning impulse current (10/350 $\mu$ s) [L1+L2+L3+N-PE] ( $I_{total}$ )	50 kA
Lightning impulse current (10/350 $\mu$ s) [L-N] ( $I_{imp}$ )	12.5 kA
Specific energy [L-N] (W/R)	39.06 kJ/ohms
Lightning impulse current (10/350 $\mu$ s) [N-PE] ( $I_{imp}$ )	50 kA
Specific energy [N-PE] (W/R)	625 kJ/Ohm
Nominal discharge current (8/20 $\mu$ s) [L-N]/[N-PE] ( $I_n$ )	20 / 80 kA
Voltage protection level [L-N] ( $U_p$ )	$\leq 1.5$ kV
Voltage protection level [N-PE] ( $U_p$ )	$\leq 1.5$ kV
Open-circuit voltage of the combination wave generator ( $U_{oc}$ )	20 kV
Follow current extinguishing capability [L-N] (a.c.) ( $I_{fi}$ )	25 kA <sub>rms</sub>
Follow current extinguishing capability [N-PE] (a.c.) ( $I_{fi}$ )	100 A <sub>rms</sub>
Follow current limitation / Selectivity	no tripping of a 32 A gG fuse up to 25 kA <sub>rms</sub> (prosp.)
Max. mains-side overcurrent protection	160 A gG
Temporary overvoltage (TOV) [L-N] ( $U_T$ ) – Characteristic	440 V / 120 min. – withstand
Temporary overvoltage (TOV) [N-PE] ( $U_T$ ) – Characteristic	1200 V / 200 ms – withstand
Operating temperature range ( $T_U$ )	-40 °C ... +80 °C
Operating state / fault indication	green / red
Number of ports	1
Cross-sectional area (PEN, $\frac{1}{2}$ )	16-25 mm <sup>2</sup> flexible / 16-35 mm <sup>2</sup> stranded
For mounting on	40 mm busbar systems
Enclosure material	thermoplastic, red, UL 94 V-0
Place of installation	indoor installation
Degree of protection	IP 30 (in combination with cover)
Approvals	VDE
Power supply (for compartment for additional applications/ termination point meter mounting board according to VDE-AR-N 4100) ( $U_N$ )	230 V
Suitable circuit breakers (manufacturer, type)	ABB S201P-B6, Hager MB199
Rated current of the circuit breaker ( $I_n$ )	6 A
Tripping characteristic	B
Extended technical data:	-----
Protection level [L-PE] ( $U_p$ )	$\leq 1.6$ kV
Weight	769 g
Customs tariff number (Comb. Nomenclature EU)	85363090
GTIN	4013364449756

# Product Data Sheet: DEHNshield ZP



Type	DSH ZP 2 LSG A TT 255
Part No.	909 231
PU	1 pc(s)

We reserve the right to introduce changes in performance, configuration and technology, dimensions, weights and materials in the course of technical progress. The figures are shown without obligation.